

## **Photoelectron imaging of helium nanodroplets**

Darcy Peterka  
UC Berkeley

Helium clusters and droplets have proved to be a very interesting nanoisolation matrix for many types of optical spectroscopies. Despite the large number of studies performed on doped helium clusters, much less work has been done on pure clusters, mainly because helium remains optically transparent until well into the VUV, precluding laser studies. I will present results on the photoionization of pure helium droplets above and below the atomic helium ionization threshold, showing the influence of the droplet environment on the emitted photoelectron.